0308



ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/076,535

DATE: 03/04/2002

TIME: 15:50:14

Input Set : A:\10448-142001.TXT

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4 <110> APPLICANT: Kapeller-Libermann, Rosana
               Carroll, Joseph M.
      7 <120> TITLE OF INVENTION: 23565, A NOVEL HUMAN ZINC
              CARBOXYPEPTIDASE FAMILY MEMBER AND USES THEREOF
     11 <130> FILE REFERENCE: 10448-142001
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C--> 13 <141> CURRENT FILING DATE: 2002-02-15
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     14 <151> PRIOR FILING DATE: 2001-02-16
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     27 <222> LOCATION: (160)...(1467)
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                                                                                60
                                                                              120
     36 cccaaggaaa gcccctgaag ctcaccagga ggaagaagc atg cag ggc act cct
                                                                              174
     37
                                                   Met Gln Gly Thr Pro
     38
    40 gga ggc ggg acg cgc cct ggg cca tcc ccc gtg gac agg cgg acg ctc
                                                                              222
    41 Gly Gly Gly Thr Arg Pro Gly Pro Ser Pro Val Asp Arg Arg Thr Leu
                                             15
    44 ctg gtc ttc agc ttt atc ctg gca gca gct ttg ggc caa atg aat ttc
                                                                              270
    45 Leu Val Phe Ser Phe Ile Leu Ala Ala Ala Leu Gly Gln Met Asn Phe
    46
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    48 aca ggg gac cag gtt ctt cga gtc ctg gcc aaa gat gag aag cag ctt
                                                                              318
    49 Thr Gly Asp Gln Val Leu Arg Val Leu Ala Lys Asp Glu Lys Gln Leu
                40
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    52 tca ctt ctc ggg gat ctg gag ggc ctg aaa ccc cag aag gtg gac ttc
                                                                              366
    53 Ser Leu Leu Gly Asp Leu Glu Gly Leu Lys Pro Gln Lys Val Asp Phe
    56 tgg cgt ggc cca gcc agg ccc agc ctc cct gtg gat atg aga gtt cct
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    57 Trp Arg Gly Pro Ala Arg Pro Ser Leu Pro Val Asp Met Arg Val Pro
    58 70
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    60 ttc tcc gaa ctg aaa gac atc aaa gct tat ctg gag tct cat gga ctt
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DATE: 03/04/2002 PATENT APPLICATION: US/10/076,535 TIME: 15:50:14

Input Set : $A:\10448-142001.TXT$

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of Ald Tyl Sel He Met He Lys Asp He Gln Val Leu Leu Asp Glu Glu	310
105 110 115	
68 aga cag gcc atg gcg aaa tcc cgc cgg ctg gag cgc agc acc aac agc	558
of Arg Gin Ald Met Ald Lys Ser Arg Arg Leu Glu Arg Ser Thr Ash Ser	330
70 120 125 130	
72 ttc agt tac tca tca tac cac acc ctg gag gag ata tat agc tgg att	606
75 File Sel Tyr Sel Ser Tyr His Thr Leu Glu Glu Ile Tyr Ser Trp Ile	
74 133 140 145	
76 gac aac ttt gta atg gag cat tcc gat att gtc tca aaa att cag att	654
77 ASP ASH File Val Met Glu His Ser Asp Ile Val Ser Lys Ile Gln Ile	
78 130 155 160 165	
80 ggc aac agc ttt gaa aac cag tcc att ctt gtc ctg aag ttc agc act	702
of Gly Ash Sel Phe Glu Ash Gln Ser Ile Leu Val Leu Lys Phe Ser Thr	
$\frac{1}{1}$ 175 100	
84 gga ggt tot ogg cac oca god ato tgg ato gad act gga att cac tod	750
85 Gly Gly Ser Arg His Pro Ala Ile Trp Ile Asp Thr Gly Ile His Ser	
105	
88 cgg gag tgg atc acc cat gcc acc ggc atc tgg act gcc aat aag att	798
89 Arg Glu Trp Ile Thr His Ala Thr Gly Ile Trp Thr Ala Asn Lys Ile 90 200 201	
200	
92 gtc agt gat tat ggc aaa gac cgt gtc ctg aca gac ata ctg aat gcc	846
93 Val Ser Asp Tyr Gly Lys Asp Arg Val Leu Thr Asp Ile Leu Asn Ala 94 215 220	
220 995	
96 atg gac atc ttc ata gag ctc gtc aca aac cct gat ggg ttt gct ttt	894
97 Met Asp Ile Phe Ile Glu Leu Val Thr Asn Pro Asp Gly Phe Ala Phe	
230 230 240	
100 acc cac agc atg aac cgc tta tgg cgg aag aac aag tog atg are	942
100 acc cac agc atg aac cgc tta tgg cgg aag aac aag tcc atc aga cct 101 Thr His Ser Met Asn Arg Leu Trp Arg Lys Asn Lys Ser Ile Arg Pro	942
100 acc cac agc atg aac cgc tta tgg cgg aag aac aag tcc atc aga cct 101 Thr His Ser Met Asn Arg Leu Trp Arg Lys Asn Lys Ser Ile Arg Pro 102 250 255	
100 acc cac agc atg aac cgc tta tgg cgg aag aac aag tcc atc aga cct 101 Thr His Ser Met Asn Arg Leu Trp Arg Lys Asn Lys Ser Ile Arg Pro 102 250 255 260 104 gga atc ttc tgc atc ggc gtg gat ctc aac agg aac tgg aac tgg	942 990
100 acc cac agc atg aac cgc tta tgg cgg aag aac aag tcc atc aga cct 101 Thr His Ser Met Asn Arg Leu Trp Arg Lys Asn Lys Ser Ile Arg Pro 102 250 255 260 104 gga atc ttc tgc atc ggc gtg gat ctc aac agg aac tgg aag tcg ggt 105 Gly Ile Phe Cys Ile Gly Val Asp Leu Asn Arg Asn Trp Lys Ser Gly	
100 acc cac agc atg aac cgc tta tgg cgg aag aac aag tcc atc aga cct 101 Thr His Ser Met Asn Arg Leu Trp Arg Lys Asn Lys Ser Ile Arg Pro 102	990
100 acc cac agc atg aac cgc tta tgg cgg aag aac aag tcc atc aga cct 101 Thr His Ser Met Asn Arg Leu Trp Arg Lys Asn Lys Ser Ile Arg Pro 102 250 255 260 104 gga atc ttc tgc atc ggc gtg gat ctc aac agg aac tgg aag tcg ggt 105 Gly Ile Phe Cys Ile Gly Val Asp Leu Asn Arg Asn Trp Lys Ser Gly 106 265 270 275 108 ttt gga gga aat ggt tct aac agg aac ccc tgc tga tga agg aac tag	
100 acc cac agc atg aac cgc tta tgg cgg aag aac aag tcc atc aga cct 101 Thr His Ser Met Asn Arg Leu Trp Arg Lys Asn Lys Ser Ile Arg Pro 102	990
100 acc cac agc atg aac cgc tta tgg cgg aag aac aag tcc atc aga cct 101 Thr His Ser Met Asn Arg Leu Trp Arg Lys Asn Lys Ser Ile Arg Pro 102	990 1038
100 acc cac agc atg aac cgc tta tgg cgg aag aac aag tcc atc aga cct 101 Thr His Ser Met Asn Arg Leu Trp Arg Lys Asn Lys Ser Ile Arg Pro 102	990
100 acc cac agc atg aac cgc tta tgg cgg aag aac aag tcc atc aga cct 101 Thr His Ser Met Asn Arg Leu Trp Arg Lys Asn Lys Ser Ile Arg Pro 102	990 1038
100 acc cac agc atg aac cgc tta tgg cgg aag aac aag tcc atc aga cct 101 Thr His Ser Met Asn Arg Leu Trp Arg Lys Asn Lys Ser Ile Arg Pro 102	990 1038 1086
100 acc cac agc atg aac cgc tta tgg cgg aag aac aag tcc atc aga cct 101 Thr His Ser Met Asn Arg Leu Trp Arg Lys Asn Lys Ser Ile Arg Pro 102	990 1038
100 acc cac agc atg aac cgc tta tgg cgg aag aac aag tcc atc aga cct 101 Thr His Ser Met Asn Arg Leu Trp Arg Lys Asn Lys Ser Ile Arg Pro 102	990 1038 1086
100 acc cac agc atg aac cgc tta tgg cgg aag aac aag tcc atc aga cct 101 Thr His Ser Met Asn Arg Leu Trp Arg Lys Asn Lys Ser Ile Arg Pro 102	990 1038 1086 1134
100 acc cac agc atg aac cgc tta tgg cgg aag aac aag tcc atc aga cct	990 1038 1086
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PATENT APPLICATION: US/10/076,535

DATE: 03/04/2002
TIME: 15:50:14

Input Set : A:\10448-142001.TXT

	12	6			34	15				21	50							
	12	8 ta	t aa	ıg gi	c ca	it ac	ror at	ic da	ar ta	ac at	-+ +	++ ~	~~ -			55	cc acc	
	12	9 Ту	r Ly	s Va	al Hi	s Gl	v T1	e G1	וים בנ וו "דינ	ic al	lan	ha a	ge a	gc a	tc a	gc ac	cc acc ir Thr	1278
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	13	2 ct	c ta	t qt	a ac	c ad	t ac	or at	c ac	o at	- 0 0	a.a. +.	~~ _		70		ıt ggc	
	13	3 Le	u Ty	r Va	ıl Al	a Se	r Gl	v Tl	ים עני לידים	r Va	. C 9	ac to	gg g	cc ta	at g	ac ac	gt ggc er Gly	1326
	134	1	37	5			- 01	38	n 11	TT AC	IL A	sp T	rp A.	La Ty	r A.	sp Se	er Gly	
	136	at	c aa	q ta	ic ac	c tt	റ മറ	ار ++ ت	t 0=	a at		~~	- 31 	85			it ggc	
	137	7 11	e Ly	s Tv	r Al	a Ph	e se	r Dh	c yo	y CL	-C CG	gg ga	ac a	ct go	gg ca	ag ta	it ggc Tr Gly	1374
	138	3 3 9)	1		ω 1 II	39	5 5	e G1	.u ье	u A	rg As	sp Ti	nr Gl	Ly G	ln Ty	r Gly	
				a et	a cc	מ מכ	o ao	2 02	a ===	~		4 (00				405	
	141	Phe	e Le	u Le	ıı Pr	9 9C	c uc a mh	a ca	y al n ti	.C at	.C C	cc ac	eg go	cc ca	ig ga	ag ac	405 g tgg	1422
	142	}		~	u 11	41	υ σ 111	T GT	11 11	e II	e Pi	o Tr	ır Al	La Gl	n Gl	lu Th	g tgg r Trp	
			a ac	a ct	t ca			a a+	~		41	.5				42	0	
	145	Met	- Ala	a Le	ι Δr	g ac	cat r T1	C at	y ga	g ca	c ac	c ct	g aa	ıt ca	.C CC	42 c ta	С	1467
	146			4 LC	42	9 111. 5	T TT	е ме	L GI	u Hi	s Th	ır Le	eu As	n Hi	s Pr	c ta o Ty	r	
			rcado	raca						43	0				43	5		
	149	gaa	acco	raam	# + a -	taasi	gca '	ggag	JCTC	ca t	cctt	ctcc	c ca	aggt	ctgt	ggc	tcctccc	1527
					~ c u	СЧССІ	1	atan n	1010101	аг от	cct	$\alpha = \pm \alpha$	~ ~~					1587
W>														gcgg	ccgc	aag	aataaat cttattc	1647
W>				,	ID NO	- caa i	ידד	cage	tgg	ca c	tggc	cgnc	g					1687
	154	<21	1 т	ENIC:	TH: 4); Z												
	155	<21	2/ 1	ILNG.	PR]	130 n												
	156	<21	3 > 0	. ברב מסכתו	ITCM.	l' Ttom												
	158	<40	0> c	TOTI	ENCE:	HOI	io sa	pier	ıs									
	159	Met	Gln	71. 1001	MCE:	. D	0.3	- 1										
	160	1	GII	r GT	1111	. Pro) GTZ	, GTA	, GT	/ Thi	Ar	g Pr	o Gl	y Pro	o Se	r Pro	Val	
	162		1119	HIG	20	Leu	теп	val	₽n∈	Ser	Phe	e Ile	e Lei	ı Ala	a Ala	a Ala	Leu	
	164	0 ±1	OIII	35	ASII	Pne	Thr	GIĀ	Asp	Gln	Va.	l Lei	ı Ar	y Val	l Lei	ı Ala	Lys	
	166		50	цуз	GIII	ьеи	ser	Leu	Leu	GLy	Asp	Leu	ı Glı	ı Gly	. Lei	ı Lys	Pro	
	168	65	пуз	vaı	ASP	Pne	Trp	Arg	Gly	Pro	Ala	a Arg	y Pro	Ser	Leu	ı Pro	Val	
	170	шър	Met	AIG	Val	Pro	Pne	Ser	Glu	Leu	Lys	Asp) Il∈	Lys	Ala	Tyr	Leu	
	172	GIU	ser	HIS	GLY	Leu	Ala	Tyr	Ser	Ile	Met	Ile	Lys	Asp	Ile	95 Gln	Val	
	174	LCu	ьец	11E	GIU	GIU	Arg	GIn	Ala	Met	Ala	Lys	Ser	Arg	Arg	Leu	Glu	
	176	ALG	120	THE	Asn	Ser	Phe	Ser	Tyr	Ser	Ser	Tyr	His	Thr	Leu	Glu	Glu	•
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- 1	L//	TTE	Tyr	Ser	Trp	Ile	Asp	Asn	Phe	Val	Met	Glu	His	Ser	Asp	Ile	Val	
J	L/3 1	ser	rys	ITE	Gln	Ile	Gly	Asn	Ser	Phe	Glu	Asn	Gln	Ser	Ile	Leu	Val	
1	ол .от]	-eu	ràs	Phe	Ser	Thr	Gly	Gly	Ser	Arg	His	Pro	Ala	Ile	Trp	175 Ile	Asp	
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/076,535

DATE: 03/04/2002
TIME: 15:50:14

Input Set : A:\10448-142001.TXT
Output Set: N:\CRF3\03042002\J076535.raw

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184			195			_		200)	- 1111	nrs	о Ата	Thr	. GTZ	/ Ile	Trp	
185	Thr	Ala	Asn	Lys	; Ile	≥ Val	Ser	Asp	Tvr	Glv	Lare	λαν	205		_	Thr	
186	_	210					215		-1-	017	цуз	220	Arg	vaı	. Leu	Thr	
187	Asp	Ile	Leu	Asn	Ala	Met	Asp	Ile	Phe	Tle	Glu	Z Z U	17.0.1	m l	_	Pro	
188	225					230	-			-10	235	ьeu	Val	Thr	Asn	Pro	
189	Asp	Gly	Phe	Ala	Phe	Thr	His	Ser	Met	Asn	Ara	Leu	Time	*	_	240	
190	_				245					250	1119	ьeu	ттр	Arg	Lys	Asn	
191	Lys	Ser	Ile	Arg	Pro	Gly	Ile	Phe	Cvs	Ile	Glv	Val	λαη	Т о	255	_	
192	_	_		260					265	0	011	vai	ASP	270	Asn	Arg	
193	Asn	Trp	Lys	Ser	Gly	Phe	Gly	Gly	Asn	Glv	Ser	Asn	Con	2/0	D	_	
194	_		275				_	280		1	001	Hon	261	ASII	Pro	Cys	
195 196	Ser	GLu	Thr	Tyr	His	Gly	Pro	Ser	Pro	Gln	Ser	Glu	200	<i>α</i> 1			
196		290					295				501	300	261	GIU	val	Ala	
197 198	Ala	Ile	Val	Asn	Phe	Ile	Thr	Ala	His	Glv	Asn	Dho	Two	λ] _	.	- 1	
198	305					310				1	315	1110	пур	Ald	Leu	11e	
199 200	Ser	Ile	His	Ser	Tyr	Ser	Gln	Met	Leu	Met	Tvr	Pro	Тиг	C1	3	320	
200	.		_		325					330	-1-	110	TYL	СТА	Arg	Leu	
201 202	ьеи	GLu	Pro	Val	Ser	Asn	Gln	Arg	Glu	Leu	Tvr	Asp	Τ.Δ11	λla	333	3	
202	7 J		~ 1	340					345		- 1 -		LCu	350	гуѕ	Asp	
203 <i>2</i> 204	нта	val	GIu .	Ala	Leu	Tyr	Lys	Val	His	Gly	Ile	Glu	Tur	7 7 0 T 1 0	Dho	C1	
204	70.00	T 7	355	_				360		-		014	365	тте	Pne	GTÀ	
205 s 206	ser .	ite :	Ser	Thr	Thr	Leu	Tyr	Val	Ala	Ser	Glv	Tle	Thr	Val	λας	(T)	
200		3/0	_	_			375				-1	380	± 111.	Val	ASP	тгр	
207 A 208 3	71d :	ryr A	Asp :	Ser	Gly	Ile	Lys '	Tyr .	Ala	Phe .	Ser	Phe (Glu	11هـ.آ	λνα	7 ~ ~	
200 J	hm c	11		_		390					395		oru .	ucu .	AIG	ASP AAA	
209 T 210	.111. (эТА (iln [Гуr	Gly	Phe 1	Leu]	Leu :	Pro A	Ala :	Thr (Gln '	Tle ·	ٔ ما ۲	Dro	400 Thm	
210 211 a	1 2 6	11			405				4	410					115	T IIT.	
211 A 212	ita (TU G	ilu 1	hr!	Trp 1	Met A	Ala 1	Leu A	Arg :	Thr :	lle N	Met (aln F	lie '	Thr :	T 011	
								4	125					130	1111	Leu	
213 A 214	ou n			'yr													
	210		35		_												
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223 ct 224 ca	acct.	yyuu Fatti	L CC	agct	ttat	cct	ggca	gca	gctt	tggg	cc a	aato	aatt	t ca	cadd	gacy	60
224 ca 225 gg	toot	7222	o ga	gtcc	tggc	caa	agat	gag	aagc	agct	tt c	actt	ctca	a aa	atet	ggac	120
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226 ga 227 ct	tact	jayaq	ן נננ	cctt	tctc	cga	actg	aaa	gaca	tcaa	ag c	ttat	ct.aa	a at	ctca	taas	240
227 ct 228 at	agaa	Lacc	i gca	atca	tgat	aaa	ggaca	atc d	cagg	tgct	gc to	ggate	ragg:	a aa	raca	raaa	300
228 at 229 ac	9900	adat	- 000	gcc	ggct	gga	gegea	agc a	accaa	acago	ct to	caqti	tacto	at.	cate.	3900	360
229 ac 230 tc	2222	yagg	aga	itata	atag	ctg	gatto	gac a	aacti	ttgta	aa to	qaaq	catte	י עני	-u Ld(tata	420
230 tc 231 ac	uaad +~~~	aLTC	aga	ittg	gcaa	cago	ettte	gaa a	aacca	agtco	a tt	ctto	itaat	· ma:	4 La L	Ly LC	480
231 ac 232 at	caco	yyıt.	CTC	ggca	accc	agco	catct	igg a	itcga	acact	g qa	atto	cacto	. 666	יא ררו	rtas	540
232 at 233 cg	tata	catg	cca	ccg	gcat	ctgg	ractg	JCC a	ataa	igatt	g to	caqto	ratita	tar	yyya!	g cyy	600
233 cg	LyLC	cuga	cag	acat	act	gaat	gcca	itg g	racat	cttc	a ta	ıqaqa	tcat	Cac	, -uac	igat	660
												- 5	ی ر	- u			720

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RAW SEQUENCE LISTING

DATE: 03/04/2002 PATENT APPLICATION: US/10/076,535 TIME: 15:50:14

Input Set : A:\10448-142001.TXT

_											•		-			`
2	34 g.	atgg	gttt	g ct	ttta	ccca	cag	catga	aac (egct.	tatg	gc g	gaaga	aaca	a orto	ccatcaga
2	35 di	ataa	44.C	r rc	tgca	cgg	cgt	ggato	etc a	aaca	ggaa	ct g	gaagi	tegg	g tti	ccatcaga ttggagga
2.	37 to	сааа	aata	a act	aycad	1000	ctg	ctcag	jaa a	actta	atca	eg ge	gecet	taca	c tea	agtoggag
236 aatggtteta acageaacce etgeteagaa acttateacg ggeceteece teagteggag 237 teggaggtgg etgecatagt gaactteate acageecatg geaactteaa ggetetgate 238 tecateeaca getactetea gatgettatg tagettat																
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247 <212> TYPE: PRT 248 <213> ORGANISM: Artificial Sequence																
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23	0 \2	20>	FLAI	URE:												
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25	7	11 F11	e PI	0 AS	ь те	ı Va.	L Se:	r Lys	S Va	l Se	r Il	e Gly	y Ly	s Se	r Ty:	r Glu
25	8 Gl	v Ar	σ λei	20 D. T.O.	1 T	- 17- ·	١ -	_	25					30	-	
25	9	,	35	р пе	л груз	o va.	r re	л гуз	5 Ile	e Se:	r Ası	o Ası	n Pro	o Ala	a Thi	r Gly
263	1	50		(010	ı va.	55	A A L	ı va,	- Alá	a Gly	/ Trp) Ile	P His	s Ala	a Arg
262	2 Glu	ı Tr	p Val	LThi	. Ser	Ala	Thi	^ T.O.	L	. П.		60	_			ı Val
264	l Ala	a Ası	а Туг	Gly	7 Ser	Asp	Lvs	Thr	T1_	Thr	/) T 7/	. Ta.	.	_		80 Leu
266	Asp	Lei	ı Ph∈	Tyr	· Ile	Leu	Pro	Val	Phe	Asn	Pro	λen	C11,	· m	95	Tyr
267				100					105	*****		, vsb	СТУ	110	Ala	Tyr
268	Ser	Ile	Thr	Thr	Asp	Ser	Tyr	Arg	Met	Trp	Arg	Lvs	Thr	Ara	Son	Pro
209) Nan	21-	115	_	_			120		~	,	-1-	125	1119	DET	PIO
270	ASII	Ala	GLY	Ser	Phe	Cys	Val	Gly	Thr	Asp	Pro	Asn	Arg	Asn	Trn	Tyr
271	λ1 =	130	III	01	~ 1		135					140	,			1 y 1
273	145	GII	птр	СТА	GLY	Met	Gly	Ala	Ser	Ser	Tyr	Ser	Pro	Cys	Ser	Glu
275	4111	- y -	Giu	СТУ	165	Ата	Pro	Phe	Ser	Glu	Pro	Glu	Thr	Lys	Ala	Val
276	Glu	Asp	Phe	Tla	700	Con	m	.	- 1	170					175	
277		P	- 110	180	vr A	set.	тгр	Leu	GLy	Gly	Gly	Lys	Gln	Asn	Ile	Lys
								Tyr 200								
280	Gly	Tyr	Asp	Tyr	Asn	Len	Asn	Pro	Λαn	71-	7	_	205			
281		210	-	_			215	110	rsb	нта	ASN	Asp	Leu	Asp	Glu	Leu
282	Ser	Asp	Leu	Lys	Ile	Ala	Ala	Asp	Ala	Leu	S0~	220	7			
283	225			_		230			u	neu	235	нта	arg	Hls	Gly	Thr
284	Tyr	Tyr	Thr	Leu	Gly	Leu	Pro	Gly	Ser	Ser	Thr	Tlo	Фиг	Dro	7.1.	240
285					245			4		250		4.T.C	тут	LT.O		ser
										•					255	

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/076,535

DATE: 03/04/2002 TIME: 15:50:15

Input Set : A:\10448-142001.TXT

Output Set: N:\CRF3\03042002\J076535.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:34 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1